

CONSTANT- HEAD

DATE _____

PROJECT _____

BORING NO. _____

Sample or Specimen No. _____

wt in grams	Tare plus dry soil		Diameter of specimen, cm	D
	Tare		Area of specimen, sq cm	A
	Dry soil	W_s	Initial height of specimen, cm	L
Specific gravity		G	Initial vol of spec, cc = AL	V
Vol of solids, cc = $W_s \div G$		V_s	Initial void ratio = $(V - V_s) \div V_s$	e

Distance between piezometer taps, cm L₁

Test No.	1	2	3
Height of specimen, cm	L		
Void ratio = $(AL - V_s) \div V_s$	e		
	1a	1b	2a 2b 3a 3b
Reading of piez 1, cm	h ₁		
Reading of piez 2, cm	h ₂		
Head loss, cm = h ₁ - h ₂	h		
Quantity of flow, cc	Q		
Elapsed time, sec	t		
Water temperature, °C	T		
Viscosity correction factor (1)	R _T		
Coefficient of permeability, (2) cm/sec	k ₂₀		
	Avg		

(1) Correction factor for viscosity of water at 20 C obtained from table VII-1.

(2) $k_{20} = \frac{Q \times L \times R_T}{h \times A \times t}$

where L = height of specimen or distance between piezometer taps if used.

Remarks _____

Technician _____ Computed by _____ Checked by _____